

Downflo® II Dust Collectors



Downflo® II

Engineered for Reliable Performance

The longstanding, most influential cartridge collector in industrial air filtration history, the Donaldson® Torit® Downflo® II (DFT), delivers optimum performance and is one of the best values available in today's marketplace. A leader in the industry for 20 years with thousands of successful installations in place, DFT dust collectors ensure steadfast, trouble-free operation.

The DFT advantage can be found in the collector's patented design and components. Now featuring a ledgeless design in combination with proprietary Ultra-Web® filter media and patented cleaning technology, the DFT continues its strong performance in traditional applications such as metalworking. It also generates new interest and respect in process applications where ledgeless construction is often a requirement. Providing higher efficiency and smaller footprints than any baghouse collector or even other cartridge collectors, DFT adds up to long-term savings and improved performance in many applications.

A Leader in the Industry
for **20** Years

DFT Offers:

- **Ledgeless construction** Eliminates dust build-up and accommodates wash down environments.
- **Compact design** Minimizes floor space.
- **Powerful performance** Patented ExtraLife™ Filter Cleaning System provides 30% more cleaning energy.
- **Cost savings** Fewer filter changeouts, reduced filter disposal costs, less energy usage.
- **Reliability** Exceptional results for over 20 years and counting.
- **Easy system set up**
- **Easy maintenance**
- **10-year warranty**

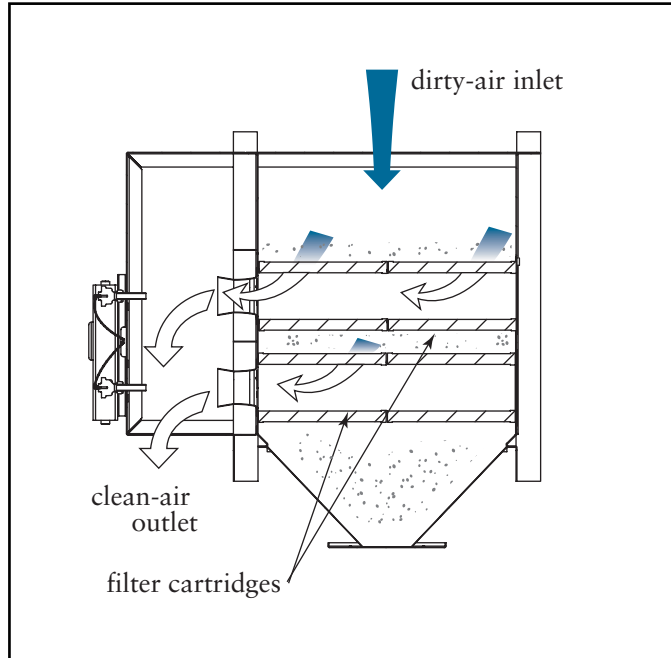


DFT 3-6

Downflo® II

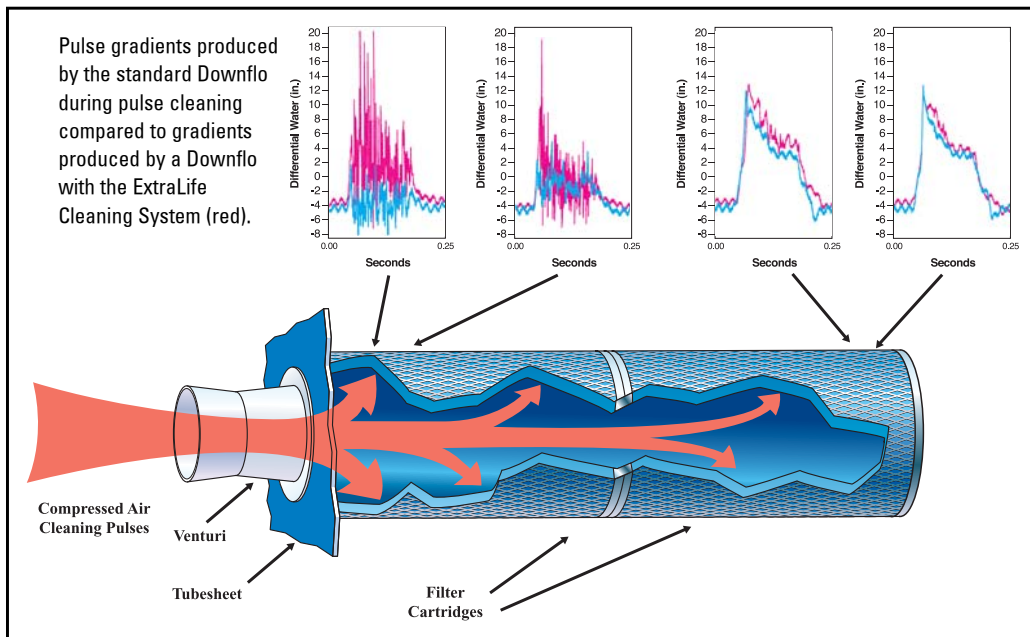
Sizes & Operations

Normal Operation



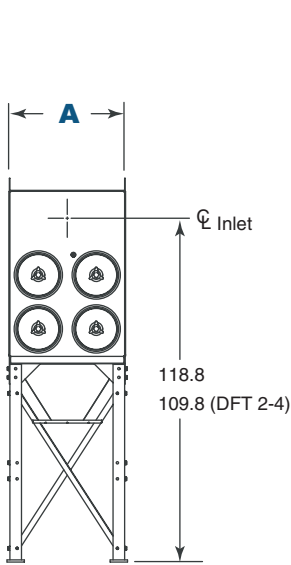
Pulse Cleaning Technology ExtraLife Filter Cleaning System uses proprietary, computer-modeled pulse cleaning technology to easily “pulse off” dust from the surface of the filter, improving filtration efficiency and prolonging filter life. The red lines in the illustration show the increased pressure at the front of the Downflo filter generated by the ExtraLife system. The blue line shows the pulse signature of a standard cartridge collector.

Downflo Pulse Pressure Gradients

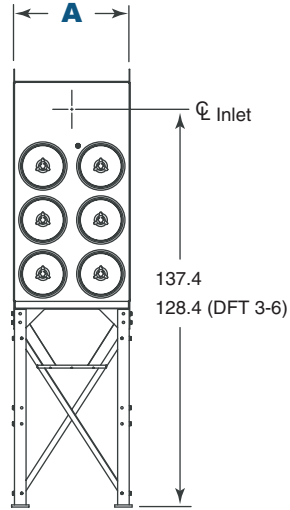


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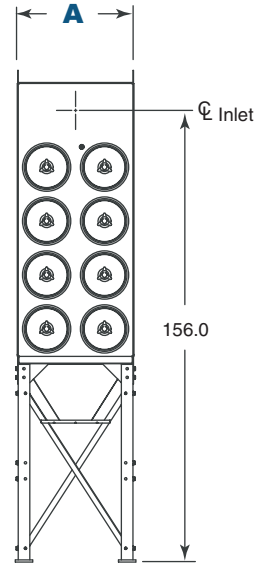
Dimensions & Specifications



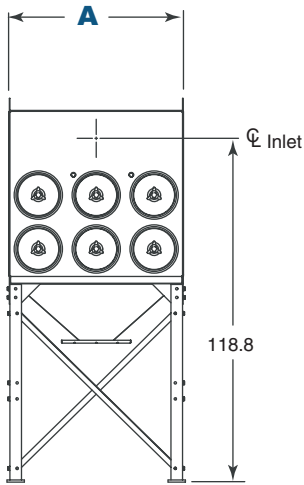
Front View
DFT 2-Models



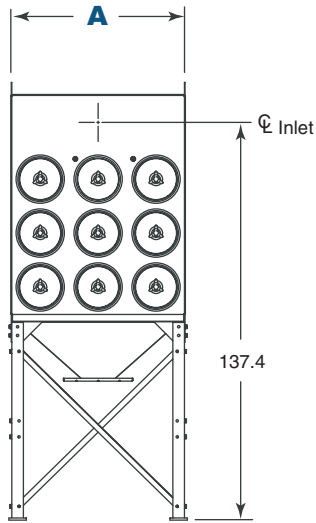
Front View
DFT 3-Models



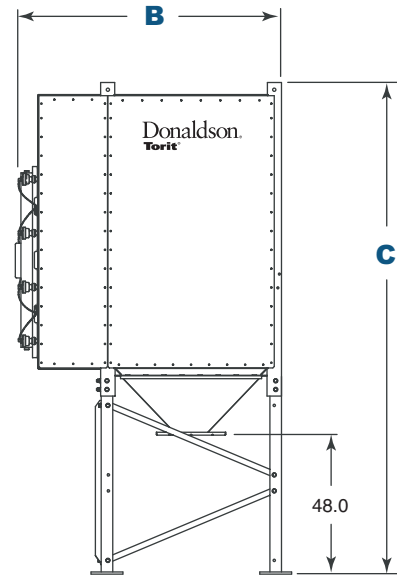
Front View
DFT 4-Models



Front View
DFT 2-12
(3-Wide Models)



Front View
DFT 3-18
(3-Wide Models)



Left Side View
All Models

DFT Standard Operating Conditions

Seismic Rating (zone)	4	Compressed Air Required (psig)	90-100
Wind Load Rating (mph)	100	Valves and controls	50/60 Khz
Housing Rating ("wg)	+15 / -20		

Dimensions & Specifications

Model*	Nominal Airflow Range** (cfm)	No. of Filters	Ultra-Web Filter Area (ft ²)	No. of Valves	Shipping Weight (lbs)	Dimensions (inches)		
						A	B	C
DFT 2 - 4	500-3,150	4	760	4	1,678	40.0	64.5	117.3
2 - 8	1,020-6,300	8	1,520	4	1,678	40.0	90.7	132.6
2 - 12	1,525-9,450	12	2,280	6	2,392	60.0	90.7	132.6
2 - 16	2,030-12,600	16	3,040	8	3,300	80.0	90.7	132.6
2 - 24	3,050-18,900	24	4,560	12	4,600	120.0	90.7	132.6
2 - 36	4,570-28,350	36	6,840	18	7,000	180.0	90.7	132.6
DFT 3 - 6	760-4,720	6	1,140	6	1,678	40.0	64.5	136.0
3 - 12	1,525-9,450	12	2,280	6	2,078	40.0	90.7	151.2
3 - 18	2,285-14,175	18	3,420	9	2,942	60.0	90.7	151.2
3 - 24	3,050-18,900	24	4,560	12	4,200	80.0	90.7	151.2
3 - 36	4,570-28,350	36	6,840	18	6,100	120.0	90.7	151.2
3 - 48	6,100-37,800	48	9,120	24	8,000	160.0	90.7	151.2
3 - 54	6,850-42,520	54	10,260	27	8,500	180.0	90.7	151.2
3 - 60	7,620-47,240	60	11,400	30	10,100	200.0	90.7	151.2
3 - 72	9,140-56,700	72	13,680	36	12,000	240.0	90.7	151.2
DFT 4 - 16	2,030-12,600	16	3,040	8	2,500	40.0	90.7	169.8
4 - 32	4,060-25,200	32	6,080	16	4,600	80.0	90.7	169.8
4 - 48	6,100-37,800	48	9,120	24	6,500	120.0	90.7	169.8
4 - 64	8,130-50,390	64	12,160	32	8,500	160.0	90.7	169.8
4 - 80	10,160-62,990	80	15,200	40	10,300	200.0	90.7	169.8
4 - 96	12,190-75,590	96	18,240	48	12,100	240.0	90.7	169.8
4 -112	14,220-88,190	112	21,280	56	14,500	280.0	90.7	169.8
4 -128	16,260-100,790	128	24,320	64	16,000	320.0	90.7	169.8

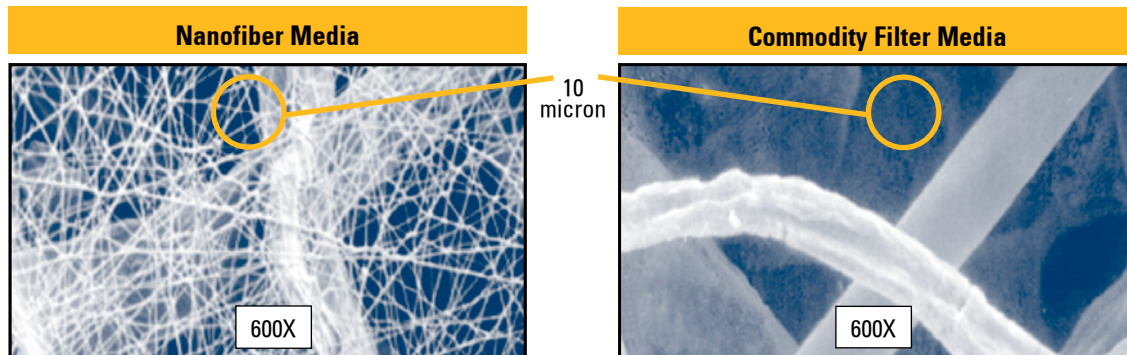
* The first number indicates number of filter rows, and the second number indicates number of cartridges.

** Based on clean filters.

Downflo® II

Cartridge Filter Technology

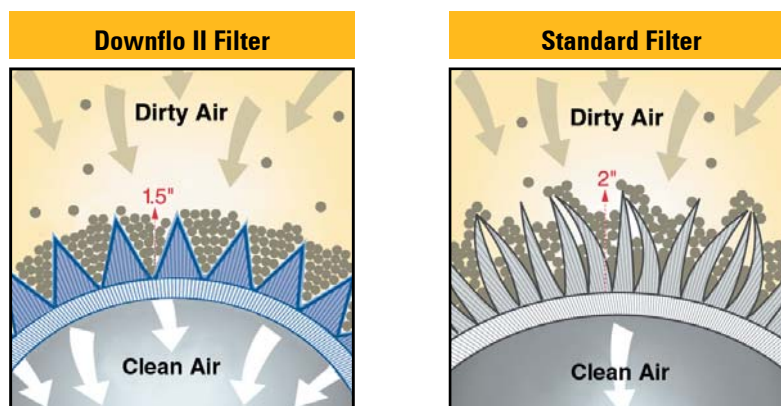
Ultra-Web® Nanofiber Filter Media The distinguishing factor in Donaldson Torit's cartridge filters is nanofiber filtration technology, which traps more dust on the surface of the filter than conventional depth loading types of filter media such as cellulose, polyester or cellulose/polyester blends. The resulting dust cake is easily cleaned off during the automated collector cleaning cycles, ensuring longest filter life and highest efficiency rated **MERV* 13** based on ASHRAE 52.2 test standards.



Nanofiber technology is available in all Ultra-Web and Fibra-Web filter cartridges.

Conventional media has spaces of up to 60 microns between fibers, allowing dust to become deeply embedded thereby shortening filter life.

DFT Filter Media Pleats Shorter and stiffer filter pleats help minimize dust entrapment and simplify filter cleaning. By reducing the height of the filter pleats from the standard 2 inches to 1.5 inches, the pleat wall is less likely to collapse or bend, which can trap dust and prevent its release.



DFT Cartridge Filters DFT dust collectors' patented downward airflow design delivers highest filtration performance while using less energy. The DFT collector, its patented ExtraLife Filter Cleaning System, and Donaldson Torit's filter cartridges together are an unbeatable system. Choose from our superior line of filters to complete the most powerful dust collection solution available.

Standard Features & Equipment Options

	Standard	Optional
Collector Design		
Mild Steel Construction	X	
Stainless Steel Construction		X
High Temperature Construction		X
Direct Drive Fans		X
Chamber and Exhaust Silencers		X
ExtraLife™ Filter Cleaning System	X	
Inlets	X	
Abrasion Resistant (AR) Inlet		X
Air Management Modules		X
Extended Dirty Air Plenum		X
Ledge-Free Hopper	X	
Steep-Sided Hopper		X
2-Mod Hopper		X
Explosion Relief Vents		X
Sprinkler Taps	X	
Sprinkler Heads		X
Service Platform (OSHA compliant)		X
Damper Pack		X
Drum Sentry™ Drum-Full Indicator		X
Lined Clean Air Plenum		X
Bag-Out Kit (Filter & Discharge)		X
Bag-In/Bag-Out Kit (Filter & Discharge)		X
Cartridge Filters		
Ultra-Web® EZ Filters	X	
Variety of Cartridge Filters: <ul style="list-style-type: none"> • Ultra-Web (MERV* 13) • Ultra-Web FR (MERV* 13) • Ultra-Web NL (MERV* 13) • Fibra-Web® (MERV* 13) • Fibra-Web FR (MERV* 13) 		X
HEPA Afterfilters		X
Paint System		
Prime Coated Interior	X	
Acrylic urethane finish over alkyd enamel primer. Paint system passes a 350-hr. salt spray test.	X	
Custom Color		X
Hostile Environment Coating		X
Epoxy Coating		X
Hopper Discharge		
Drum Cover and Hose		X
Slide Gates		X
Rotary Valves and Transitions		X
Screw Conveyors		X
Electrical Controls, Gauges and Enclosures		
Solid State Timer in NEMA 4 Enclosure	X	
Delta P Control, Delta P Plus Control		X
Custom Panels		X
Magnehelic®** Gauge	X	
Photohelic®** Gauge Standard & Weatherproof		X
Basic Cold Climate Kit		X
Heavy-Duty Cold Climate Kit		X
Solenoid Enclosure (NEMA 7 & 9)		X
Warranty		
10-Year Warranty	X	

U.S. Patents 4,395,269; 5,562,746; 5,882,379.

* The Minimum Efficiency Reporting Value (MERV) of this filter cartridge has been determined through independent laboratory testing using ASHRAE 52.2 (1999) test standards. The MERV rating was determined at a face velocity of 118 feet per minute and loading up to four inches water gauge. Actual efficiency of any filter cartridge will vary according to the specific application parameters. Dust concentration, airflow, particle characteristics, and pulse cleaning methods all affect filtration efficiency.

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Donaldson® Torit® Look to Donaldson Torit for all of your air filtration needs. Although you may not always see our products, you can breathe easier knowing we're there.

Customer Support For nearly 90 years, Donaldson Torit has been the leading innovator of air filtration solutions that make manufacturing plants a cleaner environment for employees the world over. Driven by an unwavering commitment to customer support, Donaldson Torit is the name more manufacturers around the globe trust to deliver the most efficient and productive dust, mist and fume collectors and filter media.

Unparalleled Innovation Whether our customers need a single collector or a multi-faceted collection system, Donaldson Torit has the solution. The expanse of Donaldson Torit's innovative product line is unmatched, offering unparalleled filtration systems, ancillary parts and replacement filters. From central, source and ambient systems to baghouse, envelope and cartridge technologies, Donaldson Torit has the expertise to provide filtration solutions for virtually any application.

Global Reach Donaldson Torit manufactures and markets its filtration products throughout the world. As more manufacturers continue to expand and grow their operations globally, Donaldson Torit will be there to serve and support our customers' needs.

Built for Performance Genuine Donaldson Torit replacement filters and parts can significantly improve the performance of your collectors. With hundreds of varieties to choose from and all in-stock orders shipped within 48 hours, Donaldson Torit is your best, most reliable source for premium performance replacement parts. Visit us at www.donaldsondynamic.com.

Rely on the Industry Leader When it comes to air filtration, you need a partner you can trust. Rely on the world leader in air filtration—Donaldson Torit.



Donaldson®
Filtration Solutions

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